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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|----------------------|---------------------|------------------|
| 10/766,967 | 01/28/2004 | Kazuo Kayamoto | 1924.69310 | 4313 |
| 7590 | 07/13/2006 | | EXAMINER | |
| Patrick G. Burns, Esq. GREER, BURNS & CRAIN, LTD. Suite 2500 300 South Wacker Dr. Chicago, IL 60606 | | | VAUTROT, DENNIS L | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2167 | |

DATE MAILED: 07/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | |
|------------------------------|-------------------|-----------------|
| Office Action Summary | Application No. | Applicant(s) |
| | 10/766,967 | KAYAMOTO ET AL. |
| | Examiner | Art Unit |
| | Dennis L. Vautrot | 2167 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 28 January 2004.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-18 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-18 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 28 January 2004 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

| | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>1/28/2004</u> . | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed 28 January 2004 fails to comply with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609 because no copy of the English translation is provided (37 CFR 1.98(a)(3)(ii)). It has been placed in the application file, but the information referred to therein has not been considered as to the merits. Applicant is advised that the date of any re-submission of any item of information contained in this information disclosure statement or the submission of any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the statement, including all certification requirements for statements under 37 CFR 1.97(e). See MPEP § 609.05(a).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1 – 5, 7 – 12, and 14 – 18 are rejected under 35 U.S.C. 102(e) as being anticipated by **Prompt et al. (US 2006/0020586)**.

4. Regarding claim 1, **Prompt et al.** (hereinafter **Prompt**) teaches a database management apparatus that performs a search of data from a database based on predetermined information selected by a user from among information registered as a dictionary (See page 3, paragraph [0022] "...users can search and/or browse the virtual directory to find the data needed or they can query the directory with simple commands to search for the information needed."), the database management apparatus comprising: a personal dictionary registering unit that registers information on either of or both management and analysis of the data stored in the database to the dictionary as a personal dictionary that is accessible only by a predetermined user (See page 16, paragraph [0172]); and a dictionary reference unit that outputs the information registered in the dictionary including the information registered as the personal dictionary (See page 15, paragraph [0169] "...a user is permitted to select a schema file which has been output from the schema extraction process...the user can provide input information so that the first module modifies the definition of the schema, by having the fourth module create new schema mapping, that is, where the VDS maps database objects such as tables, columns, attributes, and other entities into LDAP object classes and attributes."), and accepts a selection of the predetermined information by the user from among the information output (See page 15, paragraph [0171] "Accordingly, the first module accepts user selection of an Object from the corresponding schema previously selected. Furthermore, the user may select attributes to retain for each Object, and may define other restrictions.")

5. Regarding claims 2, 9, and 16, **Prompt** teaches a personal table storing unit that stores data obtained as a result of the search (See page 15, paragraph [0168] "In FIG. 14a, a user working at a client application selects a relational data source. In response to the selection made, schema extraction of the objects and relationships, is made by the module."), wherein the personal dictionary registering unit registers information on either of or both management and analysis of the data stored at the personal table storing unit as the personal dictionary that is accessible only by a user who made a request for the search (See page 15, paragraph [0172] "...a default directory view may be created automatically... a schema output as a result of the schema mapping and schema manager modules...can be selected by the user...the directory view is generated...Thereafter, the definition is saved in a directory view file.")

6. Regarding claims 3, 10, and 17, **Prompt** teaches a file storing unit that stores, upon the database management apparatus receiving a request to store data having a predetermined file format, the data having the predetermined file format to the database (See page 16, paragraph [0176] "One type of configuration that works suitably well with the present invention comprises encoding the captured schema with an Internet markup language like, for example Extensible Mark-up language (XML). Once the schema is formatted with XML, the encoded metadata is then stored in a schema file." XML was given in the specification as an example of a predetermined file format.), wherein the personal dictionary registering unit registers information on either of or both management and analysis of the data stored by the file storing unit as the personal

dictionary that is accessible only by a user who made the request (See page 16, paragraph [0176] "For example, the schema file may be stored with an .orx file extension representing the Objects and relationships expressed (e.g. encoded) in XML, primarily for convenience and ease of system administration." The schema referred to here represents information on management and analysis of the stat stored by the storing unit.)

7. Regarding claims 4 and 11 Prompt teaches the personal dictionary registering unit registers, upon the database management apparatus receiving a request to register information on a predetermined operation applied to the data of the database, the information on the predetermined operation to the personal dictionary that is accessible only by a user who made the request (See page 7, paragraph [0098] "This requires selecting one or more tables that are stored in a database, and combining the tables using any valid sequence of relational operations to obtain a view."), and the dictionary reference unit outputs the information registered in the dictionary including the information on the predetermined operation registered, and accepts the selection of the predetermined information by the user from among the information output (See page 15, paragraph [0169] "...a user is permitted to select a schema file which has been output from the schema extraction process. As will be illustrated subsequently in the context of a graphical user interface, the user can provide input information so that the first module modifies the definition of the schema...").

8. Regarding claims 5 and 12, **Prompt** teaches the personal dictionary registering unit registers, upon the database management apparatus receiving a request to register information on a link between the data of the database, the information on the link to the personal dictionary that is accessible only by a user who made the request (See page 9, paragraph [0115] "The virtual directory establishes a link between the two types of customer records and aggregates their data without changing the view.... In particular, the link between the two types of customer records is an ad hoc join."), and the dictionary reference unit outputs the information registered in the dictionary including the information on the link registered, and accepts the selection of the predetermined information by the user from among the information output (See page 15, paragraph [0169] "...a user is permitted to select a schema file which has been output from the schema extraction process. As will be illustrated subsequently in the context of a graphical user interface, the user can provide input information so that the first module modifies the definition of the schema...").

9. Regarding claims 7 and 14, **Prompt** teaches the personal dictionary registering unit registers, upon the database management apparatus receiving a request to register management point information on either of or both management and analysis of the data stored in the database, management point information to the personal dictionary that is accessible only by a user who made the request (See page 28, paragraph [0319] where customers are linked to products and order details), and the dictionary reference unit outputs the information registered in the dictionary including the management point

information registered, and accepts the selection of the predetermined information by the user from among the information output (See page 15, paragraph [0169] "...a user is permitted to select a schema file which has been output from the schema extraction process. As will be illustrated subsequently in the context of a graphical user interface, the user can provide input information so that the first module modifies the definition of the schema...").

10. Regarding claim 8, **Prompt** teaches a database management method to perform a search of data from a database based on predetermined information selected by a user from among information registered as a dictionary (See page 3, paragraph [0022] "...users can search and/or browse the virtual directory to find the data needed or they can query the directory with simple commands to search for the information needed."), the database management method comprising: registering information on either of or both management and analysis of the data stored in the database to the dictionary as a personal dictionary that is accessible only by a predetermined user (See page 16, paragraph [0172]); outputting the information registered in the dictionary including the information registered as the personal dictionary (See page 15, paragraph [0169] "...a user is permitted to select a schema file which has been output from the schema extraction process...the user can provide input information so that the first module modifies the definition of the schema, by having the fourth module create new schema mapping, that is, where the VDS maps database objects such as tables, columns, attributes, and other entities into LDAP object classes and attributes."); and accepting a

selection of the predetermined information by the user from among the information output (See page 15, paragraph [0171] "Accordingly, the first module accepts user selection of an Object from the corresponding schema previously selected. Furthermore, the user may select attributes to retain for each Object, and may define other restrictions.")

11. Regarding claim 15, prompt teaches a computer program for managing a database to perform a search of data from a database based on predetermined information selected by a user from among information registered as a dictionary (See page 3, paragraph [0022] "...users can search and/or browse the virtual directory to find the data needed or they can query the directory with simple commands to search for the information needed."), the computer program making a computer execute: registering information on either of or both management and analysis of the data stored in the database to the dictionary as a personal dictionary that is accessible only by a predetermined user (See page 16, paragraph [0172]); outputting the information registered in the dictionary including the information registered as the personal dictionary (See page 15, paragraph [0169] "...a user is permitted to select a schema file which has been output from the schema extraction process...the user can provide input information so that the first module modifies the definition of the schema, by having the fourth module create new schema mapping, that is, where the VDS maps database objects such as tables, columns, attributes, and other entities into LDAP object classes and attributes."); and accepting a selection of the predetermined information by the

user from among the information output (See page 15, paragraph [0171] "Accordingly, the first module accepts user selection of an Object from the corresponding schema previously selected. Furthermore, the user may select attributes to retain for each Object, and may define other restrictions.")

12. Regarding claim 18, Prompt teaches a computer-readable recording medium for storing a computer program for realizing a database management, the computer program making a computer execute: registering information on either of or both management and analysis of the data stored in the database to the dictionary as a personal dictionary that is accessible only by a predetermined user (See page 16, paragraph [0172]); outputting the information registered in the dictionary including the information registered as the personal dictionary (See page 15, paragraph [0169] "...a user is permitted to select a schema file which has been output from the schema extraction process...the user can provide input information so that the first module modifies the definition of the schema, by having the fourth module create new schema mapping, that is, where the VDS maps database objects such as tables, columns, attributes, and other entities into LDAP object classes and attributes."); and accepting a selection of the predetermined information by the user from among the information output (See page 15, paragraph [0171] "Accordingly, the first module accepts user selection of an Object from the corresponding schema previously selected. Furthermore, the user may select attributes to retain for each Object, and may define other restrictions.")

Claim Rejections - 35 USC § 103

13. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

14. Claims 6 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Prompt** as applied to claim 1 above, and further in view of **Scanlon** (5,850,480).

Prompt teaches the dictionary reference unit outputs the information registered in the dictionary including the information on the composite field registered, and accepts the selection of the predetermined information by the user from among the information output (See page 15, paragraph [0169] "...a user is permitted to select a schema file which has been output from the schema extraction process. As will be illustrated subsequently in the context of a graphical user interface, the user can provide input information so that the first module modifies the definition of the schema...")

Prompt fails to teach the personal dictionary registering unit registers, upon the database management apparatus receiving a request to register information on a composite field that is formed by combining a plurality of data fields of the database, the information on the composite field to the personal dictionary that is accessible only by a user who made the request.

However, **Scanlon** teaches the personal dictionary registering unit registers, upon the database management apparatus receiving a request to register information on a composite field that is formed by combining a plurality of data fields of the database, the information on the composite field to the personal dictionary that is accessible only by a user who made the request (See column 5, lines 40-44 "A composite field includes any group of simple fields which are related in that there is a commonality of subject matter of the information contained within such simple fields. Thus, each composite field consists of a plurality of related sub-fields.") It would have been obvious to one with ordinary skill in the art to combine the teachings of **Prompt** with the composite field teaching of **Scanlon** because of the searching advantage of having the related fields grouped together as discussed in **Scanlon**. It is for this reason that one of ordinary skill in the art would have been motivated to include the personal dictionary registering unit registers, upon the database management apparatus receiving a request to register information on a composite field that is formed by combining a plurality of data fields of the database, the information on the composite field to the personal dictionary that is accessible only by a user who made the request.

Conclusion

15. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Young (5,864,856) teaches the dictionary storage unit, databases being organized into one or more tables, and linking the tables based on attributes.

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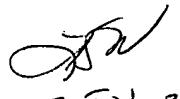
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dennis L. Vautrot whose telephone number is 571-272-2184. The examiner can normally be reached on Monday-Friday 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Cottingham can be reached on 571-272-7079. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dv
3 July 2006


JOHN COTTINGHAM
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100


7 July 2006